

**Supplementary Table 4: Primers used to amplify *IRF6* Multispecies Conserved Sequences (MCSs)**

<b>MCS</b>	<b>Forward Primer</b>	<b>Reverse Primer</b>	<b>UCSC hg18 coordinates</b>
-70	CATCAGAAAGGAGGGAGCAG	AAGGGCATTGCCAAAATATG	chr1:208115704-208115964
-20	GGGTGGGGCTAGGGTAAAT	ATTCCTAATTAGATTCGGAGAGG	chr1:208065913-208066382
-11	TATACCCCTGCCTTGACCTG	AGAGTGTGGTGGGGATTTC	chr1:208057098-208057400
<b>-9.7</b>	<b>CTCCTCTGTTTGCTTAGCTTACCTC</b>	<b>CTGGTAAATGGTGAGTAGGAAGTTG</b>	<b>chr1:208055755-208056361</b>
-8.7	ATGTCCTGTGCATGACTCCA	GTCACCCCAGGGAATTAAGC	chr1:208054738-208055007
-3.6	CCACAAGCTCTTGAGGAATCA	GAGAGTGGGATTTGGGTTCA	chr1:208049592-208049937
-2	GTTGAAGAGCCCCAGATTGA	TCCAGGGCACTTGACTCTTT	chr1:208048091-208048702
Promoter	CGTACCCACCTTTGCTCAAT	CCAACCCAGAATCTCAAACC	chr1:208045906-208046469
Intron 1a	TGAGTGCCACTGTCATACATC	CCAGGAGCTTTGGAGCATT	chr1:208045041-208045487
Intron 1b	GGCCAATAAAGTGATTGAGG	GCGTGTGTTTTAACCTGAGC	chr1:208044398-208044837
Intron 1c	TAAGGCAATCAGGCCAAGAC	CAGTCAAGTTGTATGCTGTTCC	chr1:208043409-208043868
Intron 1d	AGGTCACCTTCATACCCAGAAA	TAGTGATAGGACTGGGGAGCA	chr1:208042669-208043188
Intron 1e	GAGAAGGCTTGGGAACACTG	CATTGTGGGGCTTGAGAAGT	chr1:208042070-208042643
Intron 2	AGGGCTTTAGCCGGACTCT	CCCATTACCTTTAGTTGTCTTG	chr1:208041345-208041856
Intron 6	AGAGTCGGCAGCCCTGAG	TTTAGCTCCTTCCAATGACCA	chr1:208030769-208031193
3' of ex9	AGGCTAAACTGCCTGGAACA	CTGTACCTACCCCTCTCC	chr1:208027559-208027969
28.3	TTTTAGCCCATCCCTCTGG	TCTTCGTGCCAGTTCTGA	chr1:208017687-208017948

UCSC Genome Browser: <http://www.genome.ucsc.edu/>

MCSs are identified by their distance in kilobases from *IRF6* transcription start site (chr1:208046102 UCSC hg18)

#### Primers used in Chromatin Immunoprecipitation (ChIP) assay

<b>Amplicon</b>	<b>Forward Primer</b>	<b>Reverse Primer</b>	<b>UCSC hg18 coordinates</b>
Target in MCS-9.7	GATTGGAGCTTTGGAATGTTAATC	ACAGAATAGTAACTGGGAGGTTGC	chr1:208055840-208056093
Control region	GAATAATTTGTGACAACTGCCTTG	AATTTGAGGAGAGTAGACCACCAG	chr1:208022115-208022373